

Water-Data Report 2008

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE

Upper Chesapeake Basin
Chincoteague Subbasin

LOCATION.--Lat 38°35'40.4", long 75°17'27.7" referenced to North American Datum of 1983, Sussex County, DE, Hydrologic Unit 02060010, 10 ft upstream from bridge on State Highway 24, at Millsboro.

DRAINAGE AREA.--61.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1986 to September 1988, March 1991 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1.98 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges (questionable record), which are poor. Outflow from lake controlled by sluice gates at outlet. No gate openings during the water year. Natural flow of stream affected by inflow from sand mine dewatering process. U.S. Geological Survey satellite collection platform at station. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 280 ft³/s, July 7, gage height, 3.48 ft; minimum discharge, 6.2 ft³/s, Sept. 24.

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e17	e24	e23	e32	e40	e50	e55	51	113	35	37	14
2	e15	e23	e24	e30	e81	e50	e52	49	107	32	42	13
3	e15	e23	e25	e28	e63	e50	e51	47	80	32	38	12
4	e15	e22	e27	e28	e55	e50	69	44	94	33	34	12
5	e15	e22	e27	e28	e50	e70	66	40	133	42	32	17
6	e14	e26	e26	e27	e47	e68	67	40	118	103	32	43
7	e14	e24	e26	e27	e45	e60	63	39	94	240	28	38
8	e14	e23	e27	e27	e43	e104	59	38	81	142	28	23
9	e15	e22	e28	e27	e42	e111	59	66	71	85	26	23
10	e20	e22	e28	e28	e41	e82	59	68	67	148	31	23
11	e22	e22	e28	e30	e40	e77	58	53	65	123	28	21
12	e18	e22	e27	e28	e40	e80	58	152	60	79	25	20
13	e17	e22	e26	e28	e60	e74	54	242	57	66	25	19
14	e16	e22	e26	e30	e87	e70	50	213	55	60	25	17
15	e16	e24	e26	e28	e59	e66	49	148	54	59	29	15
16	e16	e26	e28	e30	e47	e80	49	133	54	54	29	13
17	e15	e24	e32	e34	e49	e75	50	121	55	53	25	15
18	e15	e23	e28	e40	e47	e70	49	108	53	47	23	14
19	e16	e23	e27	e36	e62	e66	48	97	53	43	21	14
20	e18	e23	e26	e33	e52	e78	47	101	52	39	19	15
21	e17	e23	e26	e31	e43	e70	47	101	49	37	17	14
22	e17	e23	e26	e30	e43	e64	48	97	47	36	18	13
23	e17	e24	e26	e32	e58	e60	48	88	47	36	18	13
24	e19	e24	e30	e32	e54	e55	47	83	47	52	16	13
25	e33	e24	e27	e30	e50	e52	45	79	41	46	16	31
26	e28	e24	e26	e29	e54	e52	46	74	41	40	14	58
27	e26	e24	e28	e28	e60	e58	46	71	40	42	14	45
28	e24	e23	e27	e30	e56	e54	55	71	39	43	16	49
29	e24	e23	e26	e32	e52	e50	75	70	36	39	18	32
30	e23	e23	e30	e30	---	e48	59	67	35	39	18	25
31	e26	---	e42	e28	---	e48	---	78	---	39	16	---
Total	577	697	849	931	1,520	2,042	1,628	2,729	1,938	1,964	758	674
Mean	18.6	23.2	27.4	30.0	52.4	65.9	54.3	88.0	64.6	63.4	24.5	22.5
Max	33	26	42	40	87	111	75	242	133	240	42	58
Min	14	22	23	27	40	48	45	38	35	32	14	12
Cfs/m	0.30	0.38	0.44	0.49	0.85	1.07	0.88	1.43	1.05	1.03	0.40	0.36
In.	0.35	0.42	0.51	0.56	0.92	1.23	0.98	1.65	1.17	1.18	0.46	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1988, 1991 - 2008 BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	56.0	72.5	93.9	108	136	149	137	100	74.6	59.0	58.0	58.1
Max	111	193	260	197	428	373	286	205	190	168	148	157
(WY)	(2004)	(2004)	(2004)	(2007)	(1998)	(1994)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)
Min	18.6	23.2	27.4	30.0	33.5	44.5	54.3	47.3	30.1	15.9	15.3	19.6
(WY)	(2008)	(2008)	(2008)	(2008)	(2002)	(2002)	(2008)	(1986)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1986 – 1988, 1991 - 2008	
Annual total	26,921		16,307			
Annual mean	73.8		44.6		92.7	
Highest annual mean					173	2003
Lowest annual mean					42.3	2002
Highest daily mean	384	Apr 17	242	May 13	1,260	Mar 4, 1994
Lowest daily mean	^c 14	Oct 6 ^a	12	Sep 3 ^b	^c 0.00	Aug 30, 1998
Annual seven-day minimum	15	Oct 2	14	Sep 18	10	Aug 9, 2002
Maximum peak flow			280	Jul 7	^d 1,770	Mar 3, 1994
Maximum peak stage			3.48	Jul 7	4.94	Mar 3, 1994
Instantaneous low flow			6.2	Sep 24	^c 0.00	Aug 29, 1998 ^f
Annual runoff (cfs)	1.20		0.722		1.50	
Annual runoff (inches)	16.23		9.83		20.40	
10 percent exceeds	159		78		172	
50 percent exceeds	37		37		72	
90 percent exceeds	18		17		28	

^e Estimated.

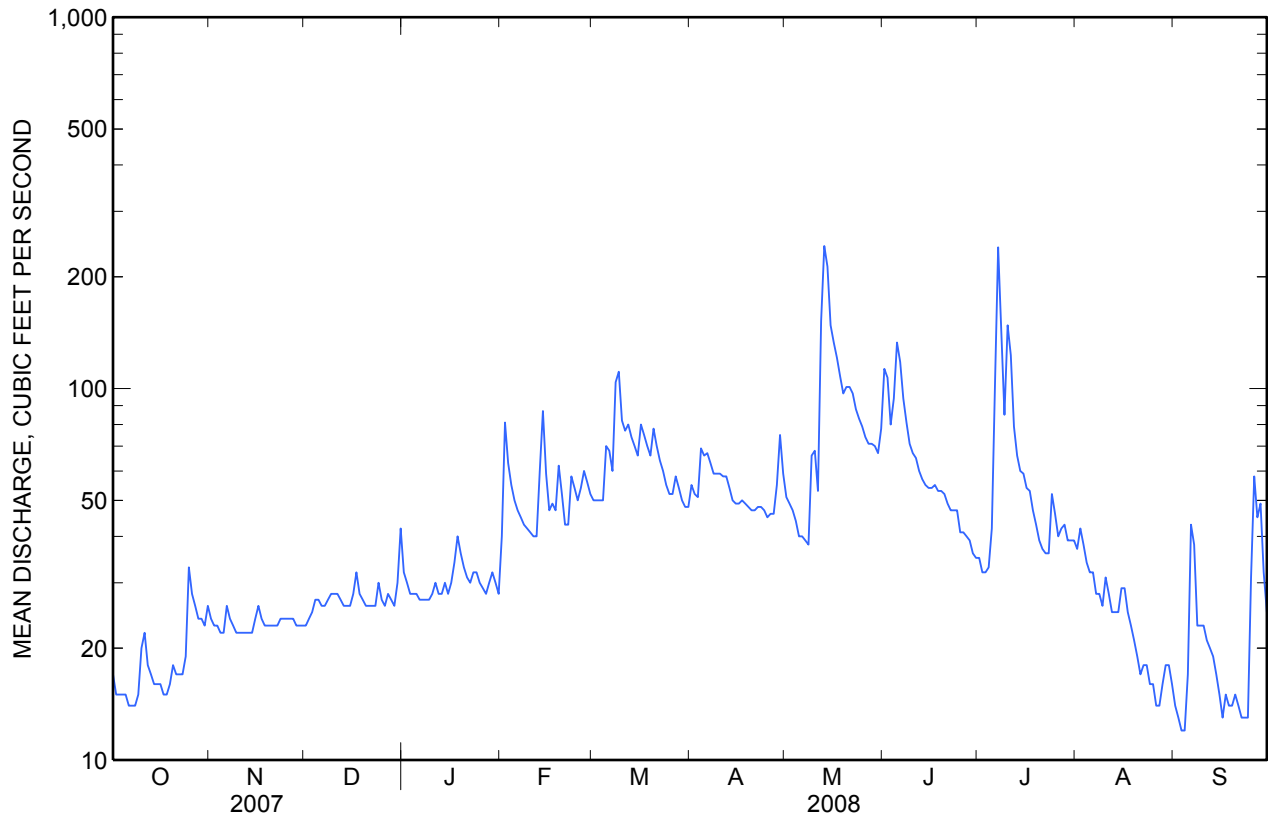
^a Oct. 6-8.

^b Sept. 3, 4.

^c As a result of lake being refilled.

^d From rating curve extended above 1,500 ft³/s.

^f Aug. 29-31, 1998.



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01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2006 to March 2008 (Discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 2006 to March 2008.

WATER TEMPERATURE: October 2006 to March 2008.

pH: October 2006 to March 2008.

DISSOLVED OXYGEN: October 2006 to March 2008.

INSTRUMENTATION.--Multi-parameter water-quality monitor, October 2006 to March 2008 (Discontinued).

REMARKS.--

WATER TEMPERATURE: Records excellent.

SPECIFIC CONDUCTANCE: Records excellent except for Oct. 13-15, and Feb. 29 to March 6, which are good.

pH: Records excellent except for Nov. 15 to Jan 8 and Feb. 27 to March 6, which are good.

DISSOLVED OXYGEN: Records excellent, except for Oct. 6-12, Oct. 26 to Nov. 2, Dec. 24 to Jan. 8, and Jan. 27 to Feb. 14, which are good; and Oct. 13-15, Nov. 3-14, and Feb. 15 to March 6, which are fair.

Some missing record during period due to instrument malfunction. No data after March 6, 2008 because the water quality monitor was discontinued.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 164 microsiemens/cm, July 26, 28, 2007; minimum, 80 microsiemens/cm, Jan. 3, 2007.

WATER TEMPERATURE: Maximum, 32.1°C, Aug. 8, 2007; minimum, 0.3°C, Feb. 16, 2007.

pH: Maximum, 10.2 standard units, June 27, 2007; minimum, 6.1 standard units, March 18, 2007.

DISSOLVED OXYGEN: Maximum, 16.1 mg/l, May 27, 2007; minimum, 5.4 mg/l, Nov. 16, 2007.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 26.2 °C, Oct. 8, 9; minimum, 1.5 °C, Jan. 25.

SPECIFIC CONDUCTANCE: Maximum, 147 microsiemens/cm, Dec. 4-6, 8; minimum, 126 microsiemens/cm, Oct. 27.

pH: Maximum, 9.4 standard units, Oct. 1, 3, 4, and 6; minimum, 6.8 standard units, Dec. 30 to Jan.2 and Feb. 6.

DISSOLVED OXYGEN: Maximum, 14.1 mg/l, Feb. 25; minimum, 6.1 mg/l, Oct. 28.

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	135	134	134	131	130	131	145	144	145	138	135	136
2	136	134	135	131	130	131	145	145	145	142	134	139
3	136	135	136	135	131	133	146	143	145	141	139	140
4	137	135	136	135	134	135	147	145	145	142	140	141
5	137	135	136	135	134	135	147	146	146	142	141	141
6	138	135	136	136	134	135	147	146	147	142	141	142
7	138	137	138	136	135	135	146	145	146	143	138	141
8	138	137	138	137	136	136	147	145	146	141	138	139
9	139	137	138	137	136	136	146	145	145	140	138	139
10	139	137	138	139	136	137	145	145	145	140	137	140
11	139	137	138	139	137	138	145	142	143	140	135	139
12	138	137	138	140	139	139	143	141	142	139	139	139
13	139	138	138	140	139	140	143	142	142	139	138	139
14	139	138	138	142	140	141	143	142	143	140	138	138
15	140	133	136	142	139	141	144	143	143	139	137	138
16	134	133	134	142	141	141	144	135	140	139	138	139
17	135	133	134	143	142	142	142	136	140	139	136	138
18	134	133	134	143	142	142	142	141	141	137	135	136
19	133	133	133	143	139	141	142	141	141	136	134	135
20	133	132	133	141	140	141	142	141	141	137	133	135
21	133	132	132	141	141	141	141	141	141	137	136	136
22	133	131	132	141	141	141	141	140	140	138	136	137
23	133	131	132	142	141	141	142	138	141	137	134	136
24	133	130	132	142	142	142	142	141	141	138	135	136
25	133	127	131	142	142	142	142	141	141	138	137	137
26	132	130	131	143	142	143	142	140	141	138	137	137
27	131	126	130	143	143	143	142	139	140	138	137	137
28	129	128	129	143	143	143	141	140	140	140	138	138
29	130	128	129	143	143	143	140	136	138	139	139	139
30	131	129	130	144	143	144	138	134	138	139	137	138
31	131	130	130	---	---	---	138	133	136	138	137	138
Month	140	126	134	144	130	139	147	133	142	143	133	138

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

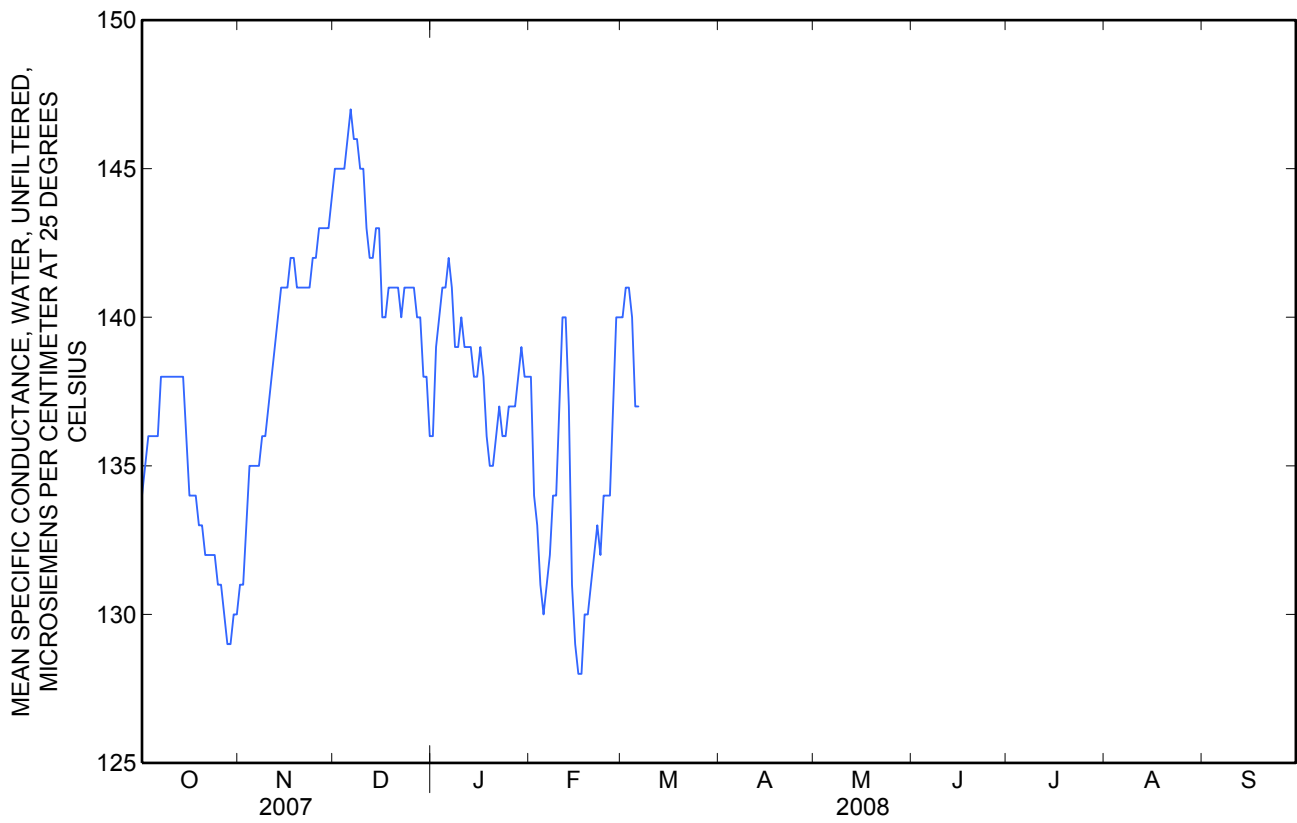
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	144	130	138	142	139	140	---	---	---	---	---	---
2	136	132	134	142	141	141	---	---	---	---	---	---
3	134	133	133	142	140	141	---	---	---	---	---	---
4	133	130	131	141	139	140	---	---	---	---	---	---
5	131	128	130	140	133	137	---	---	---	---	---	---
6	132	130	131	138	136	137	---	---	---	---	---	---
7	134	132	132	---	---	---	---	---	---	---	---	---
8	134	133	134	---	---	---	---	---	---	---	---	---
9	135	133	134	---	---	---	---	---	---	---	---	---
10	139	134	137	---	---	---	---	---	---	---	---	---
11	142	138	140	---	---	---	---	---	---	---	---	---
12	141	140	140	---	---	---	---	---	---	---	---	---
13	141	131	137	---	---	---	---	---	---	---	---	---
14	135	127	131	---	---	---	---	---	---	---	---	---
15	130	128	129	---	---	---	---	---	---	---	---	---
16	129	127	128	---	---	---	---	---	---	---	---	---
17	129	127	128	---	---	---	---	---	---	---	---	---
18	133	128	130	---	---	---	---	---	---	---	---	---
19	131	128	130	---	---	---	---	---	---	---	---	---
20	132	130	131	---	---	---	---	---	---	---	---	---
21	133	130	132	---	---	---	---	---	---	---	---	---
22	134	132	133	---	---	---	---	---	---	---	---	---
23	134	132	132	---	---	---	---	---	---	---	---	---
24	135	132	134	---	---	---	---	---	---	---	---	---
25	135	133	134	---	---	---	---	---	---	---	---	---
26	134	133	134	---	---	---	---	---	---	---	---	---
27	140	134	137	---	---	---	---	---	---	---	---	---
28	141	138	140	---	---	---	---	---	---	---	---	---
29	141	139	140	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	144	127	134	142	133	139	---	---	---	---	---	---

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
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24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---
Year	147	126	138									

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01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	22.7	21.7	22.2	16.5	14.6	15.5	8.0	6.7	7.3	8.2	7.2	7.7
2	22.1	21.5	21.9	15.4	14.1	14.7	7.0	6.5	6.7	7.2	4.4	5.8
3	23.3	21.9	22.5	14.1	12.7	13.3	7.8	6.5	7.3	4.4	2.1	2.9
4	24.2	23.0	23.5	12.9	12.0	12.5	6.5	4.9	5.7	2.9	2.2	2.5
5	24.4	23.7	24.1	12.9	11.9	12.2	4.9	4.2	4.7	3.3	2.8	3.1
6	25.6	24.0	24.5	12.2	11.5	12.0	4.2	2.7	3.2	4.0	3.1	3.5
7	26.0	24.4	25.1	11.5	10.7	11.0	3.6	2.8	3.3	6.6	3.7	4.7
8	26.2	24.7	25.4	10.7	9.9	10.3	3.9	3.2	3.5	7.5	4.8	6.4
9	26.2	25.1	25.5	10.1	9.6	9.8	4.1	3.8	3.9	9.5	7.2	8.6
10	25.3	24.7	25.0	9.8	9.2	9.6	5.0	3.9	4.4	9.4	8.9	9.1
11	24.7	21.9	23.5	9.7	8.6	9.1	6.5	5.0	5.6	11.0	9.0	9.9
12	21.9	20.1	20.9	9.5	9.0	9.2	8.1	6.4	7.3	10.8	9.9	10.3
13	20.1	19.2	19.6	9.7	9.2	9.5	8.0	7.5	7.7	10.0	9.3	9.6
14	19.3	18.5	18.9	11.1	9.4	9.9	8.0	7.4	7.6	9.3	8.2	8.9
15	19.5	18.0	18.7	11.1	10.3	10.7	7.4	6.6	6.9	8.2	5.8	7.2
16	19.1	18.2	18.6	10.3	9.1	9.7	7.8	6.6	7.2	6.1	4.9	5.4
17	20.4	18.5	19.1	9.5	8.6	9.0	6.6	5.0	5.5	5.2	4.9	5.0
18	20.5	19.1	19.7	9.2	8.7	9.0	5.0	3.7	4.4	6.0	5.0	5.4
19	21.7	20.2	20.9	9.7	9.1	9.4	4.5	4.3	4.4	5.5	5.1	5.3
20	21.5	20.7	21.1	10.4	9.4	9.8	4.6	3.8	4.2	5.2	3.0	4.4
21	20.9	20.0	20.4	11.5	9.8	10.3	4.5	4.1	4.2	3.2	1.8	2.5
22	21.5	19.8	20.4	12.9	10.8	11.8	5.3	4.5	4.9	3.1	2.7	2.9
23	22.1	20.4	21.0	11.9	9.9	10.8	7.9	5.3	6.3	4.3	2.6	3.4
24	21.6	21.2	21.4	9.9	8.7	9.2	8.5	7.4	7.9	3.9	2.6	3.5
25	21.2	19.2	20.3	8.9	8.4	8.6	8.3	7.4	7.8	2.6	1.5	2.1
26	19.2	18.8	18.9	9.4	8.5	8.9	7.7	7.0	7.4	2.9	2.0	2.6
27	19.3	18.7	19.0	10.8	9.3	10.5	8.1	6.6	7.0	3.8	2.8	3.2
28	18.7	16.9	17.9	10.5	9.4	9.8	7.2	6.6	6.9	3.9	2.6	3.1
29	16.9	15.6	16.1	9.5	8.9	9.1	9.0	7.2	8.2	4.1	3.2	3.6
30	16.0	14.8	15.4	8.9	7.9	8.3	8.7	7.9	8.1	6.4	4.0	5.1
31	15.1	14.6	14.9	---	---	---	8.4	7.6	7.9	5.5	4.6	4.9
Month	26.2	14.6	20.9	16.5	7.9	10.4	9.0	2.7	6.0	11.0	1.5	5.2

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

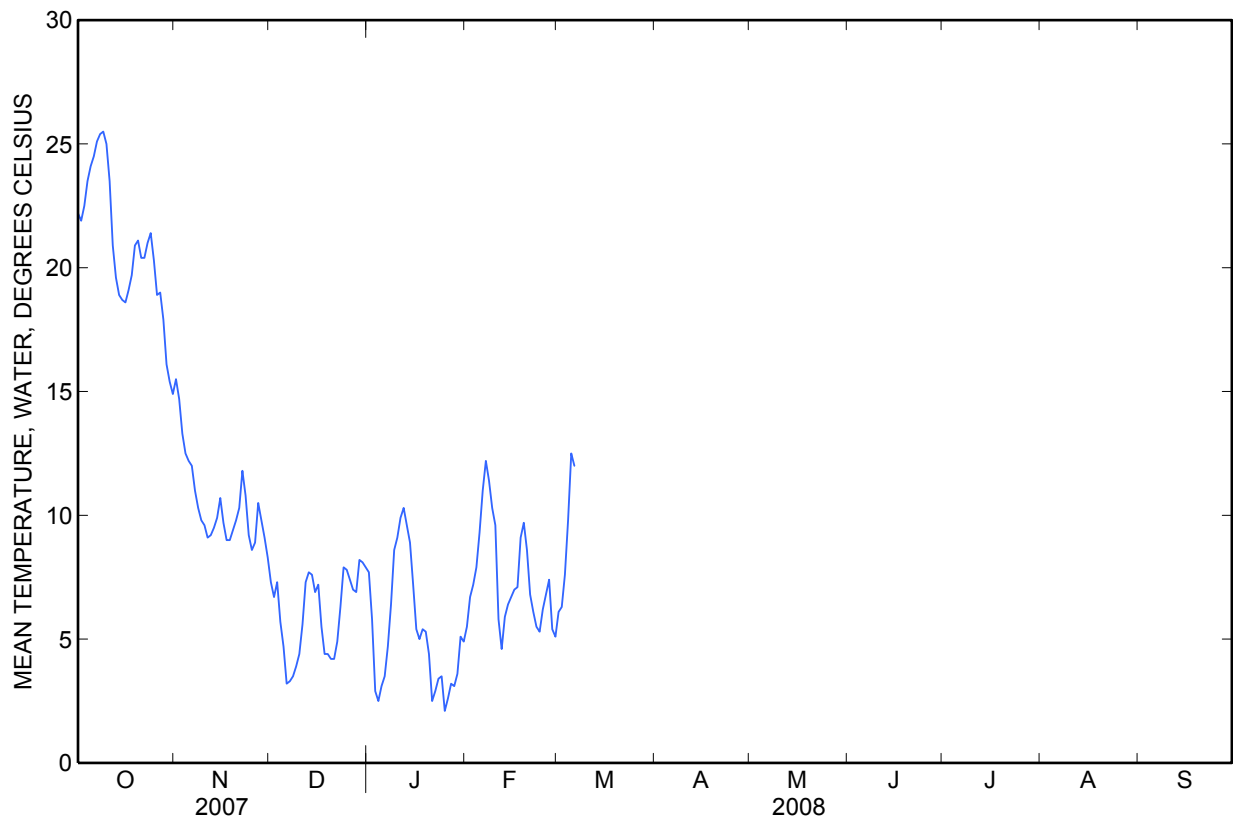
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	7.0	4.5	5.5	7.0	5.4	6.1	---	---	---	---	---	---
2	7.5	6.0	6.7	7.2	5.4	6.3	---	---	---	---	---	---
3	7.7	6.5	7.2	9.5	6.3	7.6	---	---	---	---	---	---
4	8.5	7.2	7.9	11.5	8.4	9.8	---	---	---	---	---	---
5	10.3	8.4	9.3	13.5	11.1	12.5	---	---	---	---	---	---
6	12.0	9.9	11.0	12.5	11.7	12.0	---	---	---	---	---	---
7	12.7	11.8	12.2	---	---	---	---	---	---	---	---	---
8	12.1	10.8	11.4	---	---	---	---	---	---	---	---	---
9	10.8	10.0	10.3	---	---	---	---	---	---	---	---	---
10	10.3	7.8	9.6	---	---	---	---	---	---	---	---	---
11	7.8	4.8	5.8	---	---	---	---	---	---	---	---	---
12	4.8	4.3	4.6	---	---	---	---	---	---	---	---	---
13	6.9	4.6	5.9	---	---	---	---	---	---	---	---	---
14	6.9	5.7	6.4	---	---	---	---	---	---	---	---	---
15	8.1	5.9	6.7	---	---	---	---	---	---	---	---	---
16	7.5	6.3	7.0	---	---	---	---	---	---	---	---	---
17	7.8	6.6	7.1	---	---	---	---	---	---	---	---	---
18	10.5	7.8	9.1	---	---	---	---	---	---	---	---	---
19	10.2	9.2	9.7	---	---	---	---	---	---	---	---	---
20	9.2	7.8	8.6	---	---	---	---	---	---	---	---	---
21	7.8	6.1	6.8	---	---	---	---	---	---	---	---	---
22	6.6	5.6	6.1	---	---	---	---	---	---	---	---	---
23	5.6	5.1	5.5	---	---	---	---	---	---	---	---	---
24	6.4	4.4	5.3	---	---	---	---	---	---	---	---	---
25	6.7	5.7	6.2	---	---	---	---	---	---	---	---	---
26	7.5	6.3	6.8	---	---	---	---	---	---	---	---	---
27	7.6	6.6	7.4	---	---	---	---	---	---	---	---	---
28	6.6	4.8	5.4	---	---	---	---	---	---	---	---	---
29	5.6	4.5	5.1	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	12.7	4.3	7.5	13.5	5.4	9.1	---	---	---	---	---	---

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---
Year	26.2	1.5	10.0									

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued



01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	9.4	9.1	9.2	7.1	7.0	7.1	7.2	7.2	7.2	6.9	6.8	6.9
2	9.3	9.2	9.3	7.2	7.1	7.1	7.2	7.2	7.2	7.1	6.8	6.9
3	9.4	9.2	9.3	7.3	7.2	7.2	7.3	7.2	7.3	7.2	7.1	7.2
4	9.4	8.7	9.2	7.3	7.2	7.3	7.4	7.3	7.3	7.2	7.1	7.2
5	9.3	8.9	9.1	7.3	7.2	7.3	7.4	7.3	7.3	7.2	7.1	7.2
6	9.4	8.8	9.0	7.3	7.3	7.3	7.4	7.3	7.3	7.2	7.1	7.2
7	9.1	8.8	9.0	7.4	7.2	7.3	7.4	7.3	7.4	7.1	7.0	7.0
8	9.1	8.5	8.9	7.3	7.3	7.3	7.4	7.3	7.3	7.1	6.9	7.0
9	9.1	8.4	8.8	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.0	7.0
10	8.6	7.7	8.2	7.4	7.3	7.3	7.3	7.2	7.2	7.2	7.0	7.1
11	8.0	7.4	7.6	7.4	7.3	7.4	7.2	6.9	7.1	7.3	7.1	7.1
12	7.7	7.3	7.4	7.4	7.3	7.3	7.0	6.9	6.9	7.3	7.0	7.2
13	7.8	7.4	7.5	7.3	7.3	7.3	7.0	6.9	6.9	7.2	7.1	7.2
14	7.7	7.4	7.6	7.3	7.1	7.2	6.9	6.9	6.9	7.2	7.1	7.1
15	7.9	7.4	7.6	7.2	7.2	7.2	7.0	6.9	6.9	7.2	7.1	7.1
16	7.9	7.6	7.7	7.3	7.1	7.2	7.1	7.0	7.0	7.3	7.1	7.2
17	8.0	7.6	7.7	7.3	7.2	7.3	7.2	7.0	7.0	7.2	7.2	7.2
18	8.0	7.7	7.8	7.3	7.2	7.3	7.1	7.0	7.1	7.3	7.1	7.2
19	7.9	7.7	7.8	7.3	7.2	7.3	7.1	7.0	7.1	7.3	7.2	7.2
20	7.7	7.5	7.7	7.2	7.2	7.2	7.1	7.0	7.1	7.3	7.1	7.2
21	7.8	7.4	7.5	7.2	7.1	7.1	7.1	7.0	7.0	7.3	7.2	7.2
22	7.6	7.3	7.5	7.2	7.1	7.2	7.0	7.0	7.0	7.4	7.3	7.3
23	7.6	7.4	7.5	7.3	7.2	7.2	7.0	7.0	7.0	7.3	7.1	7.2
24	7.6	7.3	7.5	7.3	7.2	7.2	7.0	6.9	7.0	7.3	7.0	7.2
25	7.4	7.3	7.3	7.2	7.2	7.2	7.0	6.9	6.9	7.1	7.0	7.0
26	7.3	7.2	7.3	7.2	7.1	7.2	7.0	6.9	6.9	7.1	7.0	7.0
27	7.2	7.0	7.1	7.3	7.1	7.2	7.0	6.9	7.0	7.1	7.0	7.0
28	7.2	7.0	7.1	7.3	7.2	7.2	7.0	6.9	6.9	7.1	7.0	7.1
29	7.2	7.1	7.2	7.2	7.2	7.2	7.0	6.9	7.0	7.1	7.1	7.1
30	7.2	7.1	7.2	7.2	7.2	7.2	6.9	6.8	6.9	7.2	7.0	7.1
31	7.2	7.1	7.2	---	---	---	6.9	6.8	6.9	7.3	7.0	7.2
Max	9.4	9.2	9.3	7.4	7.3	7.4	7.4	7.3	7.4	7.4	7.3	7.3
Min	7.2	7.0	7.1	7.1	7.0	7.1	6.9	6.8	6.9	6.9	6.8	6.9

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

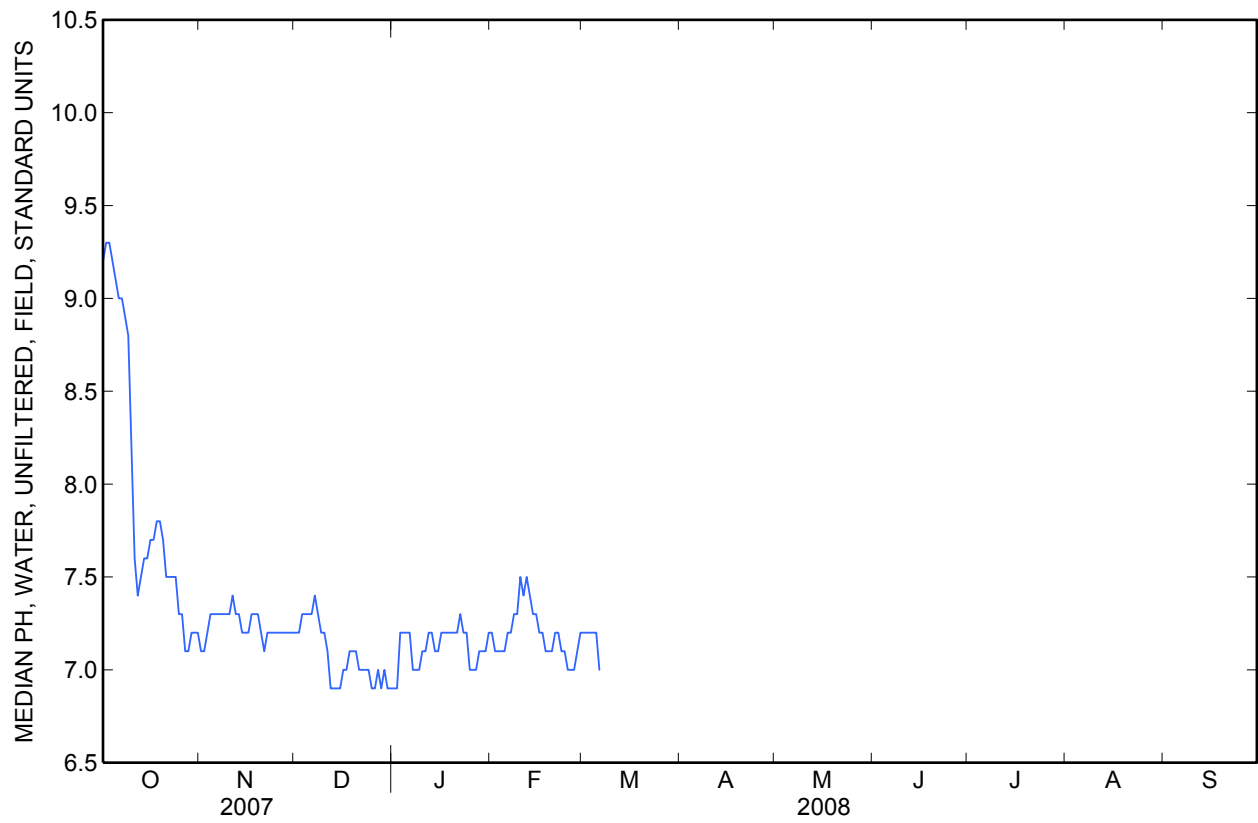
Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	7.2	7.1	7.2	7.3	7.1	7.2	---	---	---	---	---	---
2	7.2	7.0	7.1	7.3	7.1	7.2	---	---	---	---	---	---
3	7.3	7.0	7.1	7.3	7.0	7.2	---	---	---	---	---	---
4	7.4	7.0	7.1	7.3	7.0	7.2	---	---	---	---	---	---
5	7.3	6.9	7.1	7.3	7.0	7.2	---	---	---	---	---	---
6	7.4	6.8	7.2	7.3	7.0	7.0	---	---	---	---	---	---
7	7.4	7.0	7.2	---	---	---	---	---	---	---	---	---
8	7.6	7.0	7.3	---	---	---	---	---	---	---	---	---
9	7.5	7.1	7.3	---	---	---	---	---	---	---	---	---
10	7.7	7.1	7.5	---	---	---	---	---	---	---	---	---
11	7.6	7.1	7.4	---	---	---	---	---	---	---	---	---
12	7.6	7.3	7.5	---	---	---	---	---	---	---	---	---
13	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
14	7.4	7.2	7.3	---	---	---	---	---	---	---	---	---
15	7.4	7.1	7.3	---	---	---	---	---	---	---	---	---
16	7.4	7.1	7.2	---	---	---	---	---	---	---	---	---
17	7.3	7.0	7.2	---	---	---	---	---	---	---	---	---
18	7.3	7.0	7.1	---	---	---	---	---	---	---	---	---
19	7.4	6.9	7.1	---	---	---	---	---	---	---	---	---
20	7.3	6.9	7.1	---	---	---	---	---	---	---	---	---
21	7.4	7.0	7.2	---	---	---	---	---	---	---	---	---
22	7.4	7.0	7.2	---	---	---	---	---	---	---	---	---
23	7.3	7.0	7.1	---	---	---	---	---	---	---	---	---
24	7.2	7.0	7.1	---	---	---	---	---	---	---	---	---
25	7.2	6.9	7.0	---	---	---	---	---	---	---	---	---
26	7.1	7.0	7.0	---	---	---	---	---	---	---	---	---
27	7.2	6.9	7.0	---	---	---	---	---	---	---	---	---
28	7.3	7.0	7.1	---	---	---	---	---	---	---	---	---
29	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	7.7	7.3	7.5	7.3	7.1	7.2	---	---	---	---	---	---
Min	7.1	6.8	7.0	7.3	7.0	7.0	---	---	---	---	---	---

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---
Year	9.4	6.8										

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued



01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	10.7	9.3	10.0	8.1	7.6	7.8	10.5	10.0	10.2	10.3	9.5	10
2	10.6	9.7	10.1	8.4	7.5	7.9	10.7	10.3	10.5	10.9	9.8	10.3
3	11.3	9.5	10.2	9.2	8.3	8.8	11.0	10.4	10.8	11.8	10.9	11.4
4	11.8	8.1	10.5	9.2	8.7	9.0	11.6	11.0	11.3	12.2	11.7	11.9
5	11.0	9.0	10.2	9.4	8.8	9.0	---	11.4	---	12.3	11.7	12.1
6	12.1	9.2	9.8	9.3	8.9	9.1	12.2	11.5	11.8	12.4	11.9	12.2
7	10.5	9.1	9.9	9.5	9.0	9.2	12.4	12.0	12.1	12.1	11.8	11.9
8	10.4	8.0	9.4	9.7	9.3	9.4	12.2	11.8	12.0	12.8	11.5	12.2
9	10.2	8.0	9.2	9.6	9.5	9.5	12.0	11.8	11.9	12.7	11.7	12.2
10	8.4	7.3	7.7	10.0	9.3	9.6	12.3	11.8	12.0	12.3	11.3	11.8
11	7.7	6.5	7.2	10.1	9.7	9.9	12.0	11.2	11.7	11.9	11.1	11.5
12	8.4	6.4	7.5	10.1	9.8	9.9	11.5	11.0	11.3	11.6	10.3	11.0
13	9.1	7.3	8.1	10.0	9.8	9.9	11.1	10.3	10.7	11.3	10.6	10.9
14	8.7	7.7	8.3	10.3	9.7	9.9	10.4	10.1	10.3	10.9	10.4	10.6
15	9.7	7.9	8.8	10.5	10.0	10.4	10.6	10.1	10.3	11.3	10.3	10.8
16	9.9	8.9	9.3	10.5	9.9	10.3	10.8	10.1	10.5	11.8	11.1	11.4
17	10.0	8.9	9.4	10.7	10.3	10.5	11.4	10.3	10.9	11.7	11.5	11.6
18	10.0	9.2	9.6	10.6	10.3	10.4	11.3	10.9	11.2	12.3	11.5	11.9
19	9.8	9.1	9.4	10.5	10.2	10.4	11.4	11.1	11.2	12.5	11.7	12.1
20	9.2	8.5	8.9	10.4	10.2	10.3	11.5	10.8	11.2	12.7	11.9	12.3
21	9.3	8.3	8.6	10.3	9.8	10.1	11.3	11.1	11.2	13.1	12.5	12.8
22	9.1	7.7	8.5	10.2	9.8	10.0	11.3	11.0	11.1	13.3	12.9	13.1
23	9.4	8.1	8.6	10.2	9.7	9.9	11.1	10.6	10.8	13.4	13.1	13.2
24	8.7	7.6	8.4	10.2	9.9	10.1	10.8	10.3	10.5	13.2	12.8	13.0
25	7.8	7.4	7.6	10.2	9.8	10.0	11.0	10.2	10.5	13.2	12.5	12.8
26	7.7	7.2	7.4	10.1	9.5	9.9	10.4	9.9	10.2	13.3	13.0	13.1
27	7.3	6.3	6.7	10.1	9.5	9.8	10.2	9.6	10	13.6	13.1	13.3
28	7.5	6.1	6.9	10.2	9.6	9.9	10.4	9.7	10.0	13.5	13.1	13.3
29	7.9	7.1	7.5	10.2	9.7	10	10.5	9.8	10.1	13.6	13.3	13.4
30	8.1	7.4	7.8	10.2	9.9	10.0	10.1	9.6	9.8	13.3	12.9	13.1
31	8.2	7.5	7.8	---	---	---	10.1	9.1	9.7	13.6	12.7	13.1
Month	12.1	6.1	8.7	10.7	7.5	9.7	12.4	9.1	10.9	13.6	9.5	12.1

01484525 MILLSBORO POND OUTLET AT MILLSBORO, DE—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	13.2	12.5	12.9	13.3	12.5	13.0	---	---	---	---	---	---
2	12.9	12.0	12.4	13.6	12.5	13.0	---	---	---	---	---	---
3	13.2	12.4	12.8	13.6	12.4	13.0	---	---	---	---	---	---
4	13.9	12.2	13.1	13.2	12.1	12.6	---	---	---	---	---	---
5	13.7	12.8	13.3	12.4	10.7	11.5	---	---	---	---	---	---
6	13.3	12.6	13.0	---	10.1	---	---	---	---	---	---	---
7	12.7	11.3	11.9	---	---	---	---	---	---	---	---	---
8	12.4	10.8	11.6	---	---	---	---	---	---	---	---	---
9	12.3	10.9	11.6	---	---	---	---	---	---	---	---	---
10	12.7	11.1	12.0	---	---	---	---	---	---	---	---	---
11	13.1	11.3	12.3	---	---	---	---	---	---	---	---	---
12	13.1	12.6	12.9	---	---	---	---	---	---	---	---	---
13	12.9	12.3	12.7	---	---	---	---	---	---	---	---	---
14	13.2	12.0	12.6	---	---	---	---	---	---	---	---	---
15	13.8	12.5	13.1	---	---	---	---	---	---	---	---	---
16	14.0	12.6	13.4	---	---	---	---	---	---	---	---	---
17	14.0	13.2	13.6	---	---	---	---	---	---	---	---	---
18	13.4	11.8	12.7	---	---	---	---	---	---	---	---	---
19	12.7	11.5	12.1	---	---	---	---	---	---	---	---	---
20	12.8	11.3	12.1	---	---	---	---	---	---	---	---	---
21	13.3	12.0	12.6	---	---	---	---	---	---	---	---	---
22	13.3	12.6	12.9	---	---	---	---	---	---	---	---	---
23	13.5	12.6	13.0	---	---	---	---	---	---	---	---	---
24	13.8	12.8	13.2	---	---	---	---	---	---	---	---	---
25	14.1	13.0	13.6	---	---	---	---	---	---	---	---	---
26	13.8	13.1	13.6	---	---	---	---	---	---	---	---	---
27	13.2	11.5	12.4	---	---	---	---	---	---	---	---	---
28	13.3	12.1	12.7	---	---	---	---	---	---	---	---	---
29	13.4	12.5	13.0	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	14.1	10.8	12.7	13.6	10.1	12.6	---	---	---	---	---	---

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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
June			July			August			September			
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---
Year	14.1	6.1	10.8									

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